

Title (en)

RESIN COMPOSITION FOR FORMING HARD COATING LAYER

Title (de)

HARZZUSAMMENSETZUNG ZUR HERSTELLUNG EINER HARTBESCHICHTUNGSSCHICHT

Title (fr)

COMPOSITION DE RÉSINE POUR FORMER UNE COUCHE DE REVÊTEMENT DUR

Publication

**EP 3744795 A4 20210915 (EN)**

Application

**EP 19744434 A 20190123**

Priority

- JP 2018009929 A 20180124
- JP 2018211263 A 20181109
- JP 2019002130 W 20190123

Abstract (en)

[origin: EP3744795A1] Provided is a resin composition for forming a hard coating layer, which is capable of forming a cured product having not only high hardness but also excellent scratch resistance, bending resistance, and crack resistance. The resin composition according to an embodiment of the present invention contains components (A) to (D) below: the component (A): a tri- or higher-functional alicyclic epoxy compound and/or a tri- or higher-functional oxetane compound; the component (B): a polyfunctional (meth)acrylic compound; the component (C): a photocationic polymerization initiator; and the component (D): a photoradical polymerization initiator.

IPC 8 full level

**C09D 4/02** (2006.01); **B32B 27/36** (2006.01); **B32B 27/38** (2006.01); **C08F 2/50** (2006.01); **C08G 59/00** (2006.01); **C08J 7/046** (2020.01); **C09D 133/04** (2006.01); **C09D 133/14** (2006.01); **C09D 163/00** (2006.01)

CPC (source: EP KR US)

**C08F 2/50** (2013.01 - EP US); **C08F 236/20** (2013.01 - US); **C08F 236/22** (2013.01 - US); **C08G 59/32** (2013.01 - EP KR US); **C08G 59/38** (2013.01 - EP); **C08G 59/4064** (2013.01 - EP); **C08G 59/48** (2013.01 - KR); **C08J 5/046** (2013.01 - KR); **C08J 7/046** (2020.01 - EP); **C08L 63/10** (2013.01 - EP); **C08L 83/06** (2013.01 - US); **C09D 133/04** (2013.01 - EP); **C09D 133/14** (2013.01 - EP); **C09D 163/00** (2013.01 - EP KR); **B32B 27/36** (2013.01 - KR); **B32B 27/38** (2013.01 - KR); **C08J 2363/10** (2013.01 - EP); **C08L 2203/16** (2013.01 - US); **C08L 2203/20** (2013.01 - US); **C08L 2205/03** (2013.01 - US)

Citation (search report)

See references of WO 2019146659A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3744795 A1 20201202**; **EP 3744795 A4 20210915**; CN 111630114 A 20200904; JP 7398960 B2 20231215; JP WO2019146659 A1 20210128; KR 20200112888 A 20201005; US 2020347180 A1 20201105; WO 2019146659 A1 20190801

DOCDB simple family (application)

**EP 19744434 A 20190123**; CN 201980009773 A 20190123; JP 2019002130 W 20190123; JP 2019567122 A 20190123; KR 20207023537 A 20190123; US 201916964080 A 20190123